

OPERATING MANUAL

SATELLITE PT	AT100

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INTRODUCTION

Thank you for choosing this Icom product.

This product is designed and built with Icom's state of the art technology and craftsmanship.

With proper care, this product should provide you with years of trouble-free operation.

Important

READ ALL INSTRUCTIONS carefully before using the transceiver.

This **OPERATING MANUAL** contains advanced features and operating instructions for the IC-SAT100.

READ also the BASIC MANUAL that is supplied with the transceiver.

KEEP THE MANUALS, because it contains important operating information that may be useful in the future.

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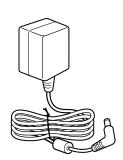
Supplied accessories

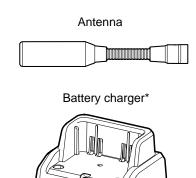
Battery pack





Power adapter* (with adapter plugs)





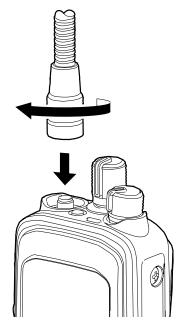
Attaching accessories

♦ Antenna

Connect the supplied antenna to the antenna connector.

CAUTION:

- **DO NOT** carry the transceiver by holding only the antenna.
- **DO NOT** connect an antenna other than the supplied antenna, or those listed in this manual.
- DO NOT transmit without an antenna.



^{*} May not be supplied, or the shape may be different, depending on the transceiver version.

1 ACCESSORIES

Attaching accessories

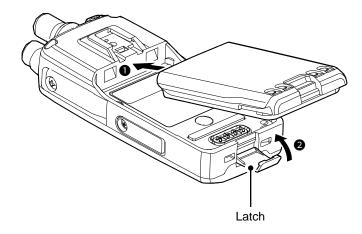
♦ Battery pack/Battery case

CAUTION: DO NOT attach or detach the battery pack or the battery case when the transceiver is wet or soiled. This may result in water or dust getting into the transceiver, battery pack, or battery case and may damage them.

NOTE: Keep the battery pack terminals clean. It's a good idea to occasionally clean them.

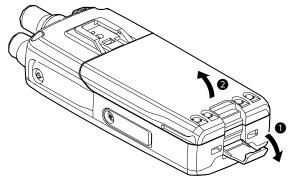
To attach:

- Slide the battery pack in the direction of the arrow.
- 2. Hook the latch until it makes a 'click' sound. (2)



To detach:

 Unhook the latch (1), and then lift up the battery pack. (2)



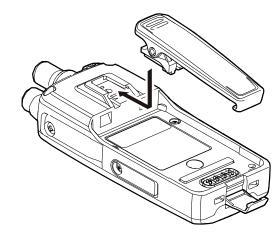
1 ACCESSORIES

Attaching accessories

♦ Belt clip

To attach:

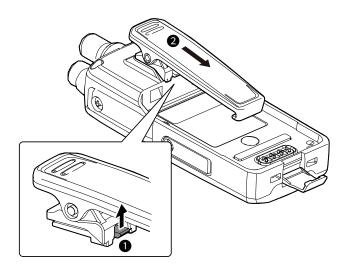
- 1. Detach the battery pack.
- 2. Slide the belt clip in the direction of the arrow until the belt clip is locked and makes a 'click' sound.
- 3. Attach the battery pack.



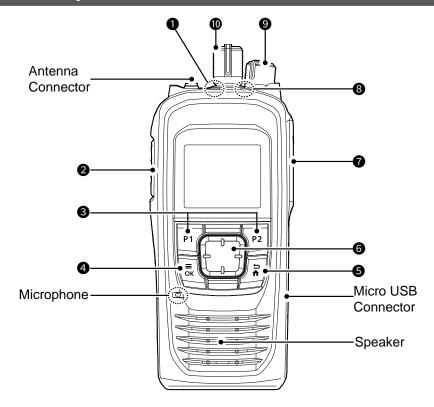
To detach:

- 1. Detach the battery pack.
- 2. Lift the tab up (1), and slide the belt clip in the direction of the arrow (2).
- 3. Attach the battery pack.

BE CAREFUL! Do not break your fingernail.



Front, top, and side panels



1 EMERGENCY KEY [EMER]

Hold down to transmit an Emergency call. (p. 8)

2 PTT SWITCH [PTT]

Hold down to transmit, release to receive. (p. 7)

3 P1/P2 KEYS [P1]/[P2]

Push to use the function assigned in the "Key Setup" menu*. (p. 13) *[OK] > Functions > **Key Setup**

4 MENU/OK KEY [OK]

- Push to enter the Menu screen.
- Push to select an item in the Menu screen.

5 BACK/HOME KEY [BACK]

- Push to return to the previous Menu screen.
- Hold down to exit the Menu screen.

6 DIRECTIONAL KEY [UP]/[DOWN]/[LEFT]/[RIGHT]

- Push to select a menu item, setting, and so on.
- Push [UP]/[DOWN] to display the Talkgroup list in the Main screen.

7 MULTI-CONNECTOR

Connects to an optional headset.

8 STATUS INDICATOR

- Lights green while receiving.
- Blinks green while the "OPEN" status.
- Lights red while transmitting.
- Blinks orange while registering, or no satellites are found.

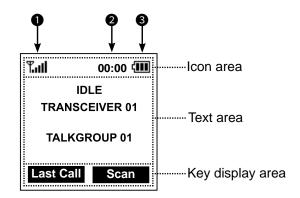
9 VOLUME/POWER SWITCH [VOL]

- Rotate to turn the transceiver ON or OFF. (p. 7)
- Rotate to adjust the audio output level.

10 TALKGROUP SELECTOR

• Rotate to select a Talkgroup. (p. 7)

Function display



① The display is shown in English as an example. Select other languages on the Menu screen, if necessary. ([OK] > Display > Language)

♦ Icon Area

Indicators

1 SIGNAL STRENGTH

Displays the relative receive signal strength level.

2 CLOCK

Displays the current time.

3 BATTERY

Displayed or blinks to indicate the battery status.

(III	⟨■		
Full	Mid	Charging	Battery exhausted
		required	

Icons

The following icons are displayed in the Icon Area.

LOCK rc

Displayed when the Lock function is ON. (p. 8)

SURVEILLANCE 2

Displayed when the Surveillance function is ON. (p. 9)

VIBRATION

Displayed when the Vibration function is ON. (p. 14)

Bluetooth®

- "*" is displayed when Bluetooth is activated. (p. 12)
- "B" is displayed when a Bluetooth device is connected.
 (p. 10)

MESSAGE [™]

- Displayed when a message have been received. (p. 8)
- Displayed if unread messages are still in the Message memory.

RECORD OF

Displayed when the Record function is ON. (p. 11)

USB [‡]

Displayed when a USB device is connected.

♦ Text Area

Displays the status, preset transceiver name, and selected Talkgroup Name.

Status	Description
IDLE	The selected Talkgroup is not active.
OPEN	The selected Talkgroup is active but
	no one is talking.
REQUESTING	Requesting a transmission.
TALKING	Transmitting
LISTENING	Receiving
SCANNING	Scanning a call

♦ Key Display Area

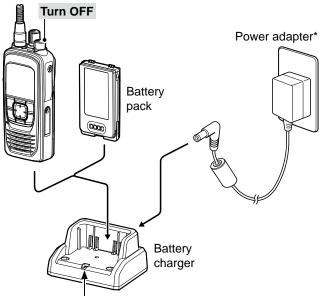
Displays the names of the function assigned to [P1] and [P2]. You can assign functions in the Menu screen. (p. 13)

Battery charger

NOTE: Before attaching or detaching a battery pack, BE SURE to turn OFF the transceiver by rotating [VOL] fully counter clockwise until it makes a "click" sound. Otherwise, a transceiver malfunction could occur.

♦ Supplied battery charger Charging time:

Approximately 3.1 hours for the BP-300



Charging indicator

Lights orange: Charging Charged

Blinks red: When a charging error has occurred.

* May not be supplied, or the shape may be different, depending on the transceiver version.

NOTE: If the charging indicator alternately blinks green and orange, remove the battery pack or the transceiver from the charger, then reinsert it. If the charging indicator still alternately blinks green and orange, ask your dealer for details.

♦ Extend Battery Life function

The charger has the Extend Battery Life function switch on the bottom panel.

- OFF: The battery is fully charged. The operating time of the transceiver is maximum.
- ON: The battery is not fully charged to not shorten the battery life cycle.
 - ① The battery life cycle is extended. But the operating time of the transceiver becomes shorter.

♦ Micro USB Connector

You can also use the Micro USB Connector to charge instead of the supplied battery charger.

- ① An USB cable that compatible with more than 2.0 A is required (User supplied).
- ① "F" is displayed while charging.
- ① Charging time may longer than using a battery charger.

Receiving and transmitting

♦ Turning ON the transceiver

- Rotate [VOL] to turn ON the transceiver.
 - The transceiver searches for a satellite.
 - When the transceiver is connected and registered to a satellite, the status "IDLE," transceiver name, and Talkgroup name are displayed.
 - ① Rotate Talkgroup selector to select a Talkgroup.
 - ① Push [Last Call] to playback the received call. (p. 9)
 - ① Push [UP] or [DOWN] to display the Talkgroup List.

♦ Receiving

When receiving, "LISTENING," and the source transceiver's name is displayed, and audio should be heard

① Rotate [VOL] to adjust the audio output level.



♦ Transmitting

CAUTION: DO NOT transmit without an antenna.

- 1. Hold down [PTT].
 - ① "REQUESTING" is displayed while the transceiver requests a transmission.
- When "TALKING" is displayed, speak at your normal voice level.
 - You can continuously transmit up to the period of time allowed by the system.



♦ Scan and Ignore

[Scan]

Push to scan a call.

[Ignore]

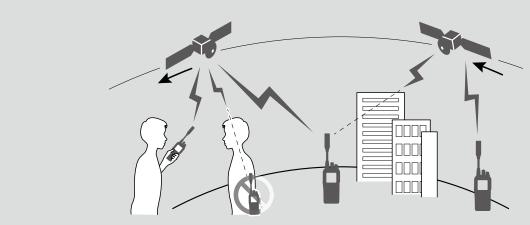
Push to ignore a received call.

The Ignore function will be canceled if there are no more calls for 90 seconds or longer.

NOTE:

• The transceiver receives and transmits using several satellites in the same orbit. Receiving and transmitting may fail, depending on the satellite position or any obstacles between the transceiver and the satellites.

• Your body can also be an obstacle. Do not hook the transceiver on your waist.



Using the Message function

The transceiver can receive and send short messages.

♦ Receiving

When receiving, a received message's header and the Talkgroup name are displayed.

① Push [RX MSG] to display a received message.



♦ Transmitting

CAUTION: DO NOT transmit without an antenna.

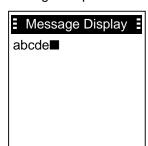
1. Open the "Message List" in the Menu screen.

[OK] > PTT Options > Message List

- ① You can also assign [P1] key as a shortcut to the "Message List" (p. 13).
- 2. Select a message to send.

TIP: Writing a new message

- Select a blank on the "Message List" screen, and then push [OK].
 - The "Message Display" screen is displayed.
- 2. Push [OK] again to display the cursor.
- 3. Enter a message of up to 100 characters.



- ① To enter a character, push [Up] or [Down].
 Usable characters: a ~ z, A ~ Z, 0 ~ 9,
 /+-=\.!?', *#"
- ① To move the cursor, push [Right] or [Left].
- ① To insert a space, push [P1].
- ① To delete, push [P2] or [BACK].
- 3. Push [PTT] to send the message.

♦ Received message list

You can read received messages on the "Received Message" screen.

[OK] > PTT Options > Received Message

Using the Emergency mode

In the Emergency mode, the transceiver can transmit an Emergency call, as shown below.

- Confirm the transceiver is connected and registered to a satellite.
- 1. Hold down [EMER] for 2 seconds.
 - Beep sounds, and the transceiver enters the Emergency mode.
 - "REQUESTING" is displayed while the transceiver requests the transmission.
- 2. When "TALKING" is displayed, the transceiver transmits the audio for 5 seconds.

Using the Key Lock function

You can use the Key Lock function to prevent accidental or unnecessary function access.

 Assign the function to the [P2] key in the Menu screen.

[OK] > Functions > Key Setup > P2 Key

- 2. Push [P2] until "Lock ON" or "Lock OFF" is displayed to turn the function ON or OFF.
 - "" is displayed while the function is ON.

♦ Auto Key Lock function

The transceiver locks the keypad* when no key is pushed for 30 seconds.

- * Except for [EMER], [PTT], [VOL], and Talkgroup selector.
- Turn the function ON or OFF in the Menu screen.

[OK] > Functions > Auto Key Lock

- "¬¬" is displayed while the function is ON.
- ① Push [P2] until "Lock OFF" is displayed to turn OFF the function.

5 OTHER FUNCTIONS

Using the Surveillance function

When this function is turned ON, the beep is not heard and the backlight and the Status indicator do not light, even when a signal is received, or a key is pushed.

 Assign the function to the [P1] key in the Menu screen.

[OK] > Functions > Key Setup > P1 Key

- Hold down [BACK] for 1 second to exit the Menu screen.
- Push [Surveillan] to turn the function ON or OFF.
 """ is displayed while the function is ON.

Using the AquaQuake function

The AquaQuake water draining function removes water from the speaker grill by vibrating the internal speaker.

 Assign the function to the [P1] key in the Menu screen.

[OK] > Functions > Key Setup > P1 Key

- 2. Hold down [BACK] for 1 second to exit the Menu screen.
- 3. Hold down [AquaQu...] to use the function.
 - Water in the speaker grill may muffle the sound coming from the speaker.
 - ① After the specified period of time, the function automatically stops, even if you continue holding down the key.
 - ① The function works with only the internal speaker.

Using the Last Call Play function

The transceiver can playback the previously received call.

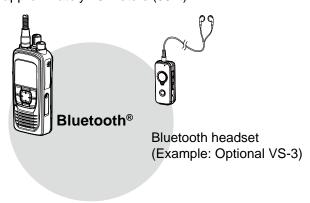
- You can playback up to 6 latest calls.
- ① Confirm the Call Recorder function is turned ON. ([OK] > PTT Options > Call Recorder)
- Assign the function to the [P1] key in the Menu screen.

[OK] > Functions > Key Setup > P1 Key

- Hold down [BACK] for 1 second to exit the Menu screen.
- 3. Push [Last Call] to playback the received call.

Using a Bluetooth® headset

The transceiver can operate with Bluetooth headsets. The communication range of Bluetooth is approximately 10 meters (33 ft).



NOTE: The Bluetooth communication range may vary, depending on the environment where you operate the device.

♦ Electromagnetic Interference

When you use a Bluetooth device, pay attention to the following:

Bluetooth devices operate in the 2.4 GHz band. The 2.4 GHz band is also used by other devices, such as Wireless LAN products, microwave ovens, RFID systems, amateur radio stations, and so on. When using this device near such devices, interference may occur, causing a decrease in communication speed, and an unstable connection. In such cases, use this device away from the other devices, or stop using those devices.

♦ Pairing with a headset

You can pair a maximum of 4 Bluetooth headsets to the transceiver.

These instructions describe pairing with the VS-3 Bluetooth® headset, as an example.

1. Turning ON the transceiver's Bluetooth function

 Select "Bluetooth ON/OFF," in the Menu screen, and then push [OK].

[OK] > Bluetooth > Bluetooth ON/OFF

- 2. Select "ON," and then push [OK] to turn ON the Bluetooth function.
- Hold down [BACK] for 1 second to exit the Menu screen.
 - "∗" is displayed.

2. Entering the VS-3 Pairing mode

- 1. Confirm the VS-3 is turned OFF.
- 2. Hold down [the for 6 seconds.
 - The LED alternatively blinks red and blue, and then the headset enters the Pairing mode.

3. Pairing and connecting the Bluetooth headset

- 1. Select "Find Device," and then push [OK].
 - [OK] > Bluetooth > BT Device List > Find Device
- 2. Select "Headset," and then push [OK].
 - The transceiver searches for a headset.
 - ① Push [BACK] to cancel searching.
- 3. Select the headset to pair and connect, and then push [OK].
 - ① A passkey or PIN code may be required to pair, depending on the headset. Refer to your headset or device's instructions for details.
- 4. Hold down [BACK] for 1 second to exit the Menu screen.
 - "B" is displayed if the headset or device is correctly connected.

♦ Disconnecting a paired device

You can disconnect a paired Bluetooth device if it is not being used.

- 1. Select "BT Device List," and then push [OK].
 - [OK] > Bluetooth > **BT Device List**
- Select the device to disconnect, and then push IOK1
- 3. Select "Disconnect," and then push [OK].
- 4. Hold down [BACK] for 1 second to exit the Menu screen.
 - "*" is displayed if the headset or device is correctly disconnected.

Deleting a headset

Disconnect a connected headset before deleting it.

1. Select "BT Device List," and then push [OK].

[OK] > Bluetooth > **BT Device List**

- 2. Select the headset to delete, and then push [OK].
- Select "Delete," and then push [OK] to delete the headset.
- 4. Hold down [BACK] for 1 second to exit the Menu screen.

Using the Menu screen

You can use the Menu screen to set infrequently changed values or function settings.

The Menu screen is constructed in a tree structure. You can go to the next tree level by pushing [RIGHT] or [OK], go back a level pushing [LEFT] or [BACK]. To select an item, push [UP] or [DOWN].

NOTE: The menu items contained in the transceiver may differ, depending on the its version or presettings.



Menu items

♦ Talkgroup

Refresh Talkgroup

Select the item, and then push [OK] to refresh the Talkgroup list.

Talkgroup List

Displays the Talkgroup list.

① "P" is displayed for the Priority Talkgroup.

♦ PTT Option

Talk Timer

The Talk Timer displays the time remaining for the current talk period.

• OFF: Turns OFF the function.

• ON: Displays the remaining time while transmitting.

Mic gain

Sets the microphone sensitivity to between -5 and 5.

① Higher values make the microphone more sensitive to the user's voice.

Call Recorder

Turn ON or OFF the Call Recorder function.

• OFF: Turns OFF the function.

• ON: Records the received call audio.

Received Message

Displays the Received message list.

Message List

Displays the Created message list.

Location Sharing

Turn ON or OFF the Location Sharing function.

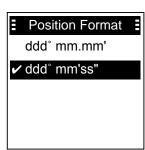
OFF: Turns OFF the function.

ON: Share your location with other Talkgroup

participants.

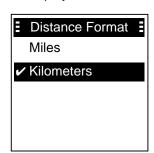
Position Format

Select a format to display your position data.



Distance Format

Select a format to display the distance.



7 MENU SCREEN

Menu items

♦ Bluetooth

Bluetooth ON/OFF

Turn the Bluetooth function ON or OFF.

BT Device List

Displays the paired Bluetooth headsets and Bluetooth data devices.

OFind Device

Search for a Bluetooth headset or data device to pair and connect.

Headset: Search for a Bluetooth headset.
Data Device: Search for a Bluetooth data device.

Bluetooth Reset

Initialize the built-in Bluetooth unit.

BT Auto Connect

Select whether or not to automatically connect to the last bonded Bluetooth device.

• OFF: The user must manually connect to a

bonded device.

• ON: Automatically connects to the last bonded

device.

BT Audio Setting

Select the audio output device for when the Bluetooth headset is connected.

• BT Only: Sets the Bluetooth headset as the Audio

Output device.

• BT & SP: Sets the Bluetooth headset and the

transceiver's speaker as the audio output

devices.

BT Device Info

Displays the Bluetooth device information such as the device name, address, support profile, version, and so on.

Key Beep (VS-3)

Turn the optional VS-3 Bluetooth headset's key beep ON or OFF.

PWR Save (VS-3)

Select whether or not to operate using the Bluetooth headset's battery saving mode while the optional VS-3 Bluetooth headset is connected.

• OFF: The Power Save mode is OFF.

• ON: The Power Save mode is activated when

there is no communication or operation for

120 seconds.

PTT Beep (VS-3)

Set the beep sound when pushing [PTT] on the optional VS-3 Bluetooth headset.

OFF: No beep sounds when pushing PTT.ON: A beep sounds when pushing PTT.

One-touch PTT

Set the One-Touch PTT function while the optional VS-3 Bluetooth headset is connected.

The function enables you to communicate with a single push of the VS-3's [PTT].

• OFF: Push [PTT] to transmit and release to

receive.

• ON: Push [PTT] to transmit and push again to

receive

Waiting Pairing

Waits for the pairing request from a Bluetooth headset or data device.

7 MENU SCREEN

Menu items

♦ Functions

Auto Key Lock

Turn the Auto Keypad Lock function ON or OFF.

• OFF: Turns OFF the function.

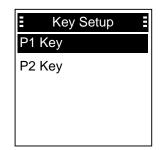
• ON: The transceiver locks the keypad* when

no key is pushed for 30 seconds.

* Except for [EMER], [PTT], [VOL], and Talkgroup selector.

Key Setup

Assign functions to the [P1] and [P2] keys.



OAssignable functions

[P1]	[P2]
OFF (No function is assigned)	OFF (No function is assigned)
Talkgroup List (p. 11)	Scan Start/Stop (p. 7)
My Position (p. 14)	Lock (p. 9)
Surveillance (p. 9)	
AquaQuake (p. 9)	
Last Call Play (p. 9)	
Message List (p. 11)	

PC Command

Select a connecting method to connect the transceiver to a PC.

• OFF: Nothing is selected.

• Multi-Connector: Select when connect to a PC using a

connection cable with Multi-Connector.

• USB: Select when connect to a PC using a USB

cable (User supplied).

• Bluetooth: Select when connect to a PC using a

Bluetooth device.

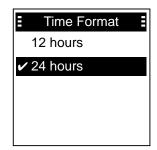
♦ Clock

Clock Display

Select whether or not to display the clock on the Main screen.

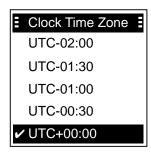
Time Format

Select time format for the clock.



Clock Time Zone

Select your local time zone.



DST

Selects whether or not to use Daylight Saving Time (DST) for the clock.

♦ Display

Backlight

Select a Backlight setting.

OFF: The backlight is always OFF.ON: The backlight is always ON.

Auto: When any switch except [PTT] is pushed,

the backlight lights for 5 seconds.

Contrast

Adjust the contrast level.

Language

Select a Language for the user interface.

7 MENU SCREEN

Menu items

♦ Beep/Vibration

Sets the transceiver's beep level and select an option for vibration.

TIP: When you set the beep level to between "1 (Linked)" and "5 (Linked)," you can adjust the beep level within the range of 0 and selected level by rotating [VOL].

System Beep Lv

Sets the system beep output level.

The beep sounds when connecting to or blocked from the system.

Emer Beep Lv

Sets the beep output level when in the Emergency mode.

Key Beep Lv

Sets the key beep output level.

Ringer Lv

Sets the ringer output level.

Opening Beep Lv

Sets the opening beep output level.

The transceiver beeps when it is turned ON.

System Vibration

Turn the system vibration ON or OFF.

The transceiver vibrates when connecting to or blocked from the system.

Emer Vibration

Turn the Emergency vibration ON or OFF.

The transceiver vibrates when received an Emergency call.

Key Vibration

Turn the key vibration ON or OFF.

The transceiver vibrates when you pushed any key except [PTT].

Receive Vibration

Turn the receive vibration ON or OFF.

The transceiver vibrates when received any call or message.

Opening Vibration

Turn the opening vibration ON or OFF.

The transceiver vibrates when it is turned ON.

♦ Information

Battery Info

Displays the battery information such as voltage, battery percentage, cycle count, and so on.

RSSI

Displays the Received Signal Strength Indication (RSSI).

My Position

Displays your current position.

Firmware Info

Displays the transceiver's firmware information.

Satellite Info

Displays satellite information.

Certification

Displays the certifications acquired with the transceiver.

8

SPECIFICATIONS AND OPTIONS

Specifications (Measurements made without an antenna.)

① All stated specifications are subject to change without notice or obligation.

♦ General

Frequency range: 1616 ~ 1626.5 MHz
 Number of channels: 240 Channels
 Type of emission: 41K7Q7W

• Duplexing method: TDD (Time Domain Duplex)

 $\begin{array}{lll} \bullet & \text{Multiplexing method:} & \text{TDMA/FDMA} \\ \bullet & \text{Antenna impedance:} & 50 \ \Omega \text{ nominal} \\ \bullet & \text{Input impedance (MIC):} & 2.2 \ k\Omega \\ \bullet & \text{Output impedance (audio):} & 8 \ \Omega \\ \end{array}$

• Operating temperature range: -30°C ~ +60°C, -22°F ~ +140°F

Power supply voltage: 7.5 V DC nominal
 Current drain: Less than 2.5 A

• Dimensions*: 57.8 (W) × 135 (H) × 32.8 (D) mm,

 $2.3 \text{ (W)} \times 5.3 \text{ (H)} \times 1.3 \text{ (D)}$ inches

• Weight (approximate): 360 g, 12.7 oz with BP-300 and FA-S102U

♦ Transmitter

Output power: 7.0 W maximumModulation: DE-QPSK/DE-BPSK

Channel spacing: 41.667 kHz
 Frequency stability: ±1.5 ppm

• Spurious emissions: 0.25 μ W (Less than 1 GHz)

1.0 µW (More than 1 GHz)

• Audio harmonic distortion: 0.8% typical (at AF 1 kHz)

♦ Receiver

• Sensitivity: —116 dBm typical

• Audio output power (At 5% distortion): 1.5 W (Typical) into an 8 Ω load (Internal speaker)

1.0 W (Typical) into an 8 Ω load (External speaker)

^{*} Projections not included.

Options

♦ BATTERY PACK

• BP-300 BATTERY PACK

Voltage: 7.2 V

Capacity: 2200 mAh (minimum), 2350 mAh (typical)

Approximate battery life*: 14.5 hours

* Operating periods are calculated under the following conditions.

TX : RX : standby = 5 : 5 : 90

♦ CHARGERS

• BC-241 DESKTOP CHARGER + BC-242 AC ADAPTER

To rapidly charge a single battery pack.

• BC-214N MULTI CHARGER + AD-140 CHARGER ADAPTER + BC-157S AC ADAPTER

To rapidly charge up to 6 battery packs.

• BC-247 DOCKING STATION + BC-242 AC ADAPTER

The wall-mountable charger. You can also attach third party mounting base to mount the charger on the place of your choice.

♦ OTHERS

• OPC-656 DC POWER CABLE

Use with a 13.8 V power source instead of the power adapter. (Use with the BC-214N)

- FA-S102U ANTENNA
- AH-40 ANTENNA

The antenna with a magnet base and cable (Approximately 1.5 m, 4.9 feet).

- MBB-5 BELT CLIP
- HM-222 SPEAKER MICROPHONE

With an Emergency key.

The HM-222 meets IP68 requirements for waterproof protection.

• VS-3 Bluetooth® HEADSET

The Bluetooth® headset with a [PTT] switch.

About the third party Bluetooth® headsets:

Icom has checked the PTT operation with some 3M Peltor headsets such as the WS Headset XP, WS ProTac XP and WS Alert XP. (Compatibility not guaranteed.)

• VS-5MC PTT SWITCH CABLE + HS-94, HS-95, HS-97 HEADSET

VS-5MC: Used to connect a headset to a transceiver.

HS-94: Ear-hook type HS-95: Neck-arm type

HS-97: Throat microphone

- HM-163MC TIEPIN TYPE MICROPHONE
 - + EH-15B EARPHONE, SP-28 EAR HOOK TYPE EARPHONE, SP-26 TUBE EARPHONE
- SP-32 TUBE TYPE EARPHONE ADAPTER

For use with EH-15B.

• SP-27 TUBE EARPHONE, SP-29 EAR HOOK TYPE EARPHONE, SP-40 EARPHONE + AD-135 EARPHONE ADAPTER

AD-135: Used to connect an earphone to the transceiver's multi-connector.

• AD-118 ACC ADAPTER

Used to connect a headset with a Hirose-6-pin connector to the transceiver's multi-connector.

Some options may not be available in some countries.

Ask your dealer for details.

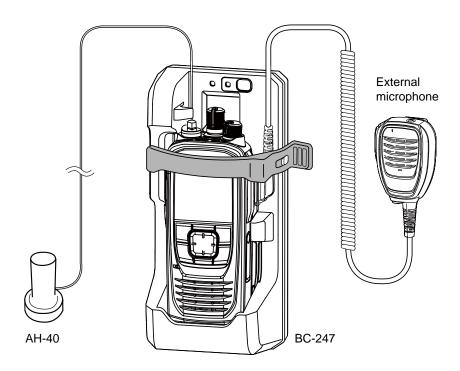
SPECIFICATIONS AND OPTIONS

Options

♦ Using an optional AH-40 antenna

The AH-40 ANTENNA has a cable with approximately 1.5 m (4.9 feet). You can place the antenna to the better location to receive and transmit while charging the transceiver using the BC-247 DOCKING STATION that is mounted on elsewhere.

Example of use:



NOTE:

- Be sure the antenna is positioned to the place without any obstacle.
- Use an external microphone or headset to transmit when the transceiver is attached to the BC-247. See page 16 for usable microphone or headsets.

♦ About an antenna's magnet base

The AH-40 uses strong magnet base to attach the antenna to the place of your choice.

DANGER! NEVER place or attach the antenna on electronic medical equipment, such as an implanted cardiac pacemaker. It may affect the operation of the equipment. This could be life endangering.

BE CAREFUL not to pinch your finger when you attach the antenna.

DO NOT put the antenna near a clock, television set (CRT type), magnetic compass or any magnetic/IC cards, credit cards, and so on. The magnet base may cause the products to malfunction or may erase the contents of magnetic storage devices.

9 TROUBLESHOOTING

Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION	REF.
The transceiver does	The battery is exhausted.	Recharge the battery pack.	p. 6
not turn ON.	The battery pack is not correctly attached.	Correctly reattach the battery pack.	p. 2
Little or no sound comes from the speaker.	Volume level is set too low.	Adjust the volume level.	p. 4
You cannot transmit.	The battery is exhausted.	Recharge the battery pack.	p. 6
	An obstacle may exist between the satellite and transceiver.	Retry transmitting in a place without obstacles.	p. 7
You cannot use the keypad.	The Key Lock function is ON.	 Push [P2] until "Lock OFF" is displayed to turn OFF the function. 	p. 4
No beep sounds.	The Key beep is set to OFF.	Adjust the key beep level in the Menu screen.	p. 4
	The audio output level is low.	 ([OK] > Beep/Vibration > Key Beep Lv) Rotate [VOL] to adjust the audio output level. 	

Count on us!	